**Complete that Square! (Standard to Vertex)** Name:

Rodriguez/Adv Alg

**Part 1**: Fill in the blanks!

1. x2 – 6x + \_\_\_\_\_\_ = (x \_\_\_\_\_\_)2 2. j2 \_\_\_\_ j + \_\_\_\_\_\_ = (j – 7)2

3. h2 \_\_\_\_h + 81 = (h \_\_\_\_\_\_)2 4. x2 – 10x + \_\_\_\_\_\_ = (x \_\_\_\_\_\_)2

5. z2 \_\_\_\_\_z + 400 = (z \_\_\_\_\_\_)2 6. n2 + 38n + \_\_\_\_\_ = (n \_\_\_\_\_)2

**Part 2**: Re-write each into vertex form.

7.  8. g(t) = -2t2 + 8t + 22

9.  10. 

11. y = 4n2 + 4n + 36 12. y = -7b2 – 14b + 56

13. g(s) = –s2 + 8s – 14 14. j(n) = -6n2 – 96n + 36

15. p(v) = 2v2 + 6v – 7 16. y = -10x2 – 200x + 20